Exhibit A

0-order Charging

Jim Hunter



Charging

Charging occurs due to a buildup of charge species on free dielectrics

electrodes, charge species migrate to the appropriate When electric field is applied between 2 open

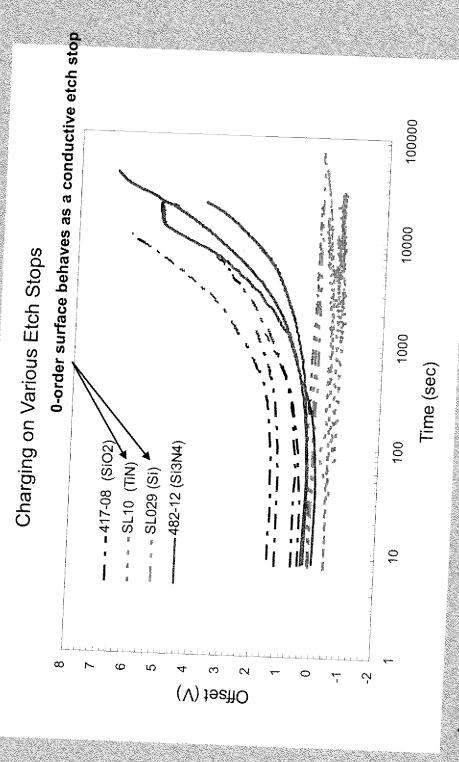
If they migrate and stop on a dielectric, they cannot dissipate – the charge will build up and cause the field to be altered, which in turn changes the device behavior

If the surface of the poles are conductive, the charge can dissipate

traces on the etch stop that are properly grounded, thus capable of "sinking" charge build up induced by a The 0-order device of the patent has conductive



Typical Charging Test



Induced offset over time

This is measured by electrically stressing a ribbon and optically interrogating the amount of deflection induced by a fixed voltage The electrical stress will change the amount of deflection induced by a fixed voltage over time if "charging" occurs

WPRESS

